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(NATIONAL COUNCIL OF SCIENCE MUSEUMS) MINISTRY OF CULTURE, GOVT. OF INDIA



(b) Pituitary (d) Thyroid

	MENISTRY OF CULTURE GOVT, OF INDIA
Name of the candidate :	Father's name :
Contact mobile no. : Roll Number :	Signature with date :
WRITTEN TEST FOR SELECTION	OF EDUCATION ASSISTANT 'A'
	Maximum Time: 3 hours
Maximum Marks: 100 Section-A (THE STATE OF THE S
(Multiple	e Choice)
Mark the correct option in the column of the table g the space provided for the purpose. Please return within the given time limit. There is no negative mark	the question paper/answer sheet to the invigilator
Q1. A short pulse of white light is incident from air	Q7. During rainbow formation, a passenger in an
to a glass slab at normal incidence. After travelling	aeroplane
through the slab, the first colour to emerge is	(a) shall never see a rainbow. (b) may see a primary and a secondary rainbow as
(a) blue (b) green (c) violet (d) red	concentric circles.
(c) violet (u) tou	(c) may see a primary and a secondary rainbow as
Q2. Which of the following statements about a	concentric arcs.
compound is incorrect? (a) A molecule of a compound has atoms of	(d) shall never see a secondary rainbow.
different elements.	Q8. The state of a gas can be described by quoting
(b) A compound cannot be separated into its	the relationship between
constituent elements by physical methods of	(a) pressure, volume, temperature (b) temperature, amount, pressure
separation. (c) A compound retains the physical properties of	(c) amount, volume, temperature
its constituent elements.	(d) pressure, volume, temperature, amount
(d) The ratio of atoms of different elements in a	09. Which of the following is not a lymphoid tissue
compound is fixed.	(a) Spleen (b) Tonsils
Q3. Which metal ion is a constituent of chlorophyll?	(c) Pancreas (d) Thymus
(a) Iron (b) Copper	Q10. In a permanent magnet at room temperature
(c) Magnesium (d) Zinc	(a) magnetic moment of each molecule is zero.
Q4. A body is falling freely under the action of	(b) the individual molecules have non-zero magnetic moment which are all perfectly aligned.
gravity alone in vacuum. Which of the following	(c) domains are partially aligned.
quantities remain constant during the fall? (a) Kinetic energy.	(d) domains are all perfectly aligned.
(b) Potential energy.	Q11. The period number in the long form of the
(c) Total mechanical energy.	periodic table is equal to
(d) Total linear momentum.	(a) magnetic quantum number of any element of
Q5. In which of the following, functional group	the period.
isomerism is not possible?	(b) atomic number of any element of the period. (c) maximum Principal quantum number of any
(a) Alcohols (b) Aldehydes	element of the period.
(c) Alkyl halides (d) Cyanides	(d) maximum Azimuthal quantum number of any
Q6. Growth can be measured in various ways.	element of the period.
Which of these can be used as parameters to	Q12. Which of the following glands is large sized a
measure growth	hirth but reduces in size with ageing?

(a) Pineal

(c) Thymus

(a) Increase in cell number(b) Increase in cell size(c) Increase in length and weight(d) All the above

	Q13. Motion of an oscillating liquid column in a U-tube is	Q23. What is Dry Ice? (a) Solid Oxygen	0.00.000				
	(a) periodic but not simple harmonic (b) non-periodic	(c) Solid Hydrogen	(b) Solid Nitrogen (d) Solid Carbon Dioxide				
	(c) simple harmonic and time period is	Q24. Girth of stem increa	ases due to				
	independent of the density of the liquid	(a) apical meristem	(b) lateral meristem				
	(d) simple harmonic and time-period is directly proportional to the density of the liquid	(c) intercalary meristem	(d) vertical meristem				
	The state of the s	Q25. Which of the follow	ing statements is wrong?				
	Q14. As the temperature increases, average kinetic	(a) Ozone is not responsible for greenhouse effect					
effect of increase of temperature on pressure provided the volume is constant?		the atmosphere to sulphur trioxide. (c) Ozone hole is thinning of ozone layer present in					
					(a) increases (b) decreases	stratosphere.	
					(c) remains same (d) becomes half	(d) Ozone is produced in	upper stratosphere by the
	Q15. Which of the following organisms does not	action of UV rays on oxyg	gen.				
	have both muscles and skeleton for movement?	026 The :::	-h				
	(a) dog (b) snail	the three angle bisectors	the point of intersection of				
	(c) earthworm (d) human being	(a) Incenter	of a triangle.				
	(a) mandi being	(c) Centroid	(b) Orthocenter				
	Q16. Which of the following characteristics of	(e) delition	(d) Circumcenter				
1	electrons determines the current in a conductor?	Q27. "Every Drop Counts	" is a slogan related to				
	(a) Drift velocity alone (b) Thermal velocity alone	(a) counting of drops of any liquid.					
(c) Both drift velocity and thermal velocity		(b) counting of water drops.					
(d) Neither drift nor thermal velocity		(c) importance of water.					
l	017 Sewage containing	(d) importance of counting					
	Q17. Sewage containing organic waste should not		125				
	be disposed in water bodies because it causes	Q28. What is the name of the instrument used to					
	major water pollution. Fishes in such a polluted water die because of	measure motions underground, including those of waves generated by earthquakes, volcanic					
	(a) Large number of mosquitoes	eruptions?	iquakes, volcanic				
	(b) Increase in the amount of dissolved oxygen	(a) Seismometer	0.5.				
	(c) Decrease in the amount of dissolved oxygen in	(c) Barometer	(b) Anemometer				
	water	(c) Barometer	(d) Thermometer				
	(d) Clogging of gills by mud	Q29. Every year, National Mathematics Day is					
l		observed on -	Duy 13				
	Q18. Which of the following does not lose their	(a) 22 nd September	(b) 21st June				
	nucleus at maturity?	(c) 21st March	(d) 22 nd December				
	(a) Companion cells (b) Red blood cells	030 1 papameters 2					
	(c) Vessel (d) Sieve tube cells	Q30. 1 nanometer = ? (a) 10 ⁻³ meter	0.3106				
	Q19. Which from the following is true for "Sound"?	(c) 10-9 meter	(b) 10 ⁻⁶ meter				
	(a) Sound cannot travel through a vacuum	(c) 10 meter	(d) 10 ⁻¹² meter				
(b) Sound cannot travel through gases (c) Sound cannot travel through liquids (d) Sound cannot travel through solids Q20. The gas, commonly known as "laughing gas",		Q31. The earth is an approximate sphere. If the					
		interior contained matter which is not of the same					
		density everywhere, then on the surface of the					
		earth, the acceleration due to gravity					
		(a) will be directed towards the centre but not the					
1	S	same everywhere.					
	a) Carbon Dioxide (b) Sulphur Dioxide	(b) will have the same value	ie everywhere but not				
(c) Nitrous Oxide (d) Sodium Oxide	directed towards the centr	e.				
021 Amphibians do not have the 5-11		(c) will be same everywher	re in magnitude directed				
(a) Three chambered heart (b) Gills or lungs	towards the centre.					
	c) Scales (d) Mucus glands	(d) cannot be zero at any p	oint.				
(A CONTRACTOR OF THE CONTRACTOR	Q32. The organisms which	cause diseases in plant				
r	222. Which of the following can be used to form a eal image always?	and animals are called:	cause diseases in plants				
	10	(a) Pathogens	(b) Vectors				
	3.0	(c) Insects	(d) Worms				
(c) Convex mirror only (d) None of these		(d) Worms				

_	l Linutiaia	042 Which of the following	ng letters does not have 3
Q33. The oxidant which is u		Q42. Which of the following letters does not have 3 any line of symmetry?	
(a) KBrO ₃	(-)	(a) E	(b) T
(c) CrO ₃	(d) KNO ₃	(a) E (c) N	(d) X
Q34. A hockey player is mo	wing northward and		La Contraction of the Contractio
guddanly turns westward	with the same speed to		is estimated by measuring
suddenly turns westward with the same speed to avoid an opponent. The force that acts on the		the amount of:	
player is		(a) total organic matter	
(a) frictional force along W	restward.	(b) biodegradable organic matter	
(a) frictional force along westward. (b) muscle force along southward.		(c) oxygen evolution	
(c) frictional force along so	outh-west.	(d) oxygen consumption	
(d) muscle force along sou	th-west.		the second of the
(a) muscle force along soci		Q44. Which of the following	ing statements about the
Q35. In malignant tumors,	the cells proliferate,	electron is incorrect? (a) It is a negatively charged particle. (b) The mass of electron is equal to the mass of	
grow rapidly and move to	other parts of the body		
to form new tumors. This	stage of disease is		
called:		neutron.	at of all atoms
(a) metagenesis	(b) metastasis	(c) It is a basic constitue	athodo rove
(c) teratogenesis	(d) mitosis	(d) It is a constituent of o	attiode rays
(6)		Out tall is assis aredu	god on hurning of fossil
Q36. Every rational numb	er is	Q45. Which gas is produc	ced on burning or rossis
(a) a natural number	(b) an integer	fuels?	b) Oxygen
(c) a real number	(d) a whole number		d) Carbon dioxide
		(-)	
Q37. The change in seaso	ns on the earth occurs	Q46. The primary treatm	nent of waste water
because		involves the removal of:	
(a) the distance between	the earth and the sun is	(a) dissolved impurities	(b) stable particles
not constant.		(c) toxic substances	(d) harmful bacteria
	the earth is parallel to the		ut de la
plane of its orbit.	i i i i i i i i i i i i i i i i i i i	Q47. He was a mathema	itician and physicist; best
(c) the axis of rotation of the earth is perpendicular to the plane of its orbit.(d) the axis of rotation of the earth is tilted with respect to the plane of its orbit.		known for his collabora	tion with Albert Einstein in
		formulating a theory re	lated to the gas like
			netic radiation. Name the
		scientist.	(b) Meghnad Saha
and if	ient in cour fruite then you	(a) P. C. Mahalanobis	(d) S. N. Bose
Q38. If your diet is defic	ient in sour fruits then you	(c) S. Chandrasekhar	(u) 3. N. Dose
are supposed to suffer	(b) Beri Beri	048. The clinical test th	at is used for diagnosis of
(c) Scurvy	(d) Night blindness.	typhoid is:	
(c) Scarvy	(4)	(a) ELISA	(b) ESR
Q39. When a disc rotate	s with uniform angular	(c) PCR	(d) Widal
velocity, which of the following is not true? (a) The sense of rotation remains same. (b) The orientation of the axis of rotation remains same. (c) The speed of rotation is non-zero and remains same. (d) The angular acceleration is non-zero and remains same. Q40. Pick one material from the following which is completely soluble in water.			1
		Q49. The maximum loa	nd a wire can withstand
			n its length is reduced to half
		of its original length, w	7111
		(a) be double.	
		(b) be half.	
		(c) be four times. (d) remain same.	
		(u) remain same.	
		050. Ice is floating on	water in a beaker when ice
		completely melts then	level of water in beaker:
		(a) Increases (b) Re	emains the same
(a) Chalk powder	(b) Tea leaves	(c) Decreases (d) Fir	st increases then decreases
(c) Glucose	(d) Saw dust		
		Q51. Which of the foll	owing is used as an
Q41. Spinal cord originates from: (a) Cerebrum (b) Cerebellum		atmospheric pollution	indicator?
		(a) Lepidoptera	(b) Lichens
(c) Medulla	(d) Pons	(c) Lycopersicon	(d) Lycopodium

- Q52. Ultrasound has frequency of vibration
- (a) between 20 and 20,000 Hz
- (b) below 20 Hz
- (c) above 20,000 Hz
- (d) between 500 and 10,000 Hz
- Q53.'Smack' is a drug obtained from the:
- (a) latex of Papaver somniferum
- (b) leaves of Cannabis sativa
- (c) flowers of Dhatura
- (d) fruits of Erythroxyl coca
- Q54. Which of the following pairs of physical quantities does not have same dimensional formula?
- (a) Work and torque.
- (b) Angular momentum and Planck's constant.
- (c) Tension and surface tension.
- (d) Impulse and linear momentum.
- Q55. Animal husbandry and plant breeding programmes are the examples of:
- (a) reverse evolution
- (b) artificial selection
- (c) mutation
- (d) natural selection
- Q56. Which one of the following is true for all chemical reactions?
- (a) There is a change in volume
- (b) Heat is evolved
- (c) Chemical bonds are broken or formed
- (d) There is a change in mass

- Q57. The term "water-pollution" can be defined in several ways. Which of the following statements does not give the correct definition?
- (a) The addition of undesirable substances to water-bodies
- (b) The removal of desirable substances from water-bodies
- (c) A change in pressure of the water bodies
- (d) A change in temperature of the water bodies
- Q58. All genes located on the same chromosome:
- (a) Form different groups depending upon their relative distance
- (b) Form one linkage group
- (c) Will not from any linkage groups
- (d) Form interactive groups that affect the phenotype
- Q59. The danger signals installed at the top of tall buildings are red in colour. These can be easily seen from a distance because among all other colours, the red light
- (a) is scattered the most by smoke or fog
- (b) is scattered the least by smoke or fog
- (c) is absorbed the most by smoke or fog
- (d) moves fastest in air
- Q60. Rocket works on the principle of conservation of
- (a) mass

(b) energy

(c) momentum

(d) velocity

Section-B (40 Marks) (Life Sciences)

(Descriptive type)

Note-Question numbers 1 to 5 carry 2 marks each. Question numbers 6 to 10 carry 4 marks each. Question 11 having two parts carries 5 marks each.

- Q1. "All plants give out oxygen during day and carbon dioxide during night". Do you agree with this statement? Give reason.
- Q2. A woman has only daughters. Analyse the situation genetically and provide a suitable explanation.
- Q3. Give reasons why acquired characters are not inherited.
- Q4. What is a clone? Why do offspring formed by asexual reproduction exhibit remarkable similarity?
- Q5. A fluid filled double membranous layer surrounds the lungs. Name it and mention its important function.
- Q6. Why is the flow of signals in a synapse from axonal end of one neuron to dendritic end of another neuron but not the reverse?
- Q7. Palm is a monocotyledonous plant, yet it increases in girth. Why and how?
- Q8. Name the part of the alimentary canal where major absorption of digested food takes place. What are the absorbed forms of different kinds of food materials?
- Q9. Differentiate between Blood and Lymph.
- Q10. How does deforestation lead to frequent floods and droughts?
- Q11. Write short notes on any two of the following:
 - (a) Climate change & Global warming
 - (b) COVID-19 pandemic -Prevention & Control
 - (c) Hepatitis a global threat to human health
 - (d) Human Gene editing Good or Bad?
 - (e) Endangered Species

Section-B (40 Marks) (Physical Sciences)

(Descriptive type)

Note-Question numbers 1 to 5 carry 2 marks each. Question numbers 6 to 10 carry 4 marks each. Question 11 having two parts carries 5 marks each.

Q1. There are three solids made up of aluminium, steel and wood, of the same shape and same volume. Which of them would have highest inertia & why?

Ans. Steel. As the mass is a measure of inertia, the ball of same shape and size, having more mass than other balls will have highest inertia. Since steel has greatest density and greatest mass,

Q2. Can any object have momentum even if its mechanical energy is zero? Explain.

Ans. No. Since mechanical energy is zero, there is no potential energy and no kinetic energy. Kinetic energy being zero, velocity is zero. Hence, there will be no momentum.

Q3. The displacement of a moving object in a given interval of time is zero. Would the distance travelled by the object also be zero? Justify you answer.

Ans. No. Though the moving object comes back to its initial position the distance travelled is not

Q4. You are given two samples of water labelled as 'A' and 'B'. Sample 'A' boils at 100°C and sample 'B' boils at 102°C. Which sample of water will not freeze at 0°C? Comment.

Ans. Sample 'B' will not freeze at 0°C because it is not pure water. At 1 atm, the boiling point of pure water is 100°C and the freezing point of pure water is 0°C.

Q5. A body falls towards earth in air. Will its total mechanical energy be conserved during the fall? Justify. Ans. No, because resistive force of air also acts on the body which is a non-conservative force. So the gain in KE would be smaller than the loss in PE.

Q6. Why does a metal bar appear hotter than a wooden bar at the same temperature? Equivalently it also appears cooler than wooden bar if they are both colder than room temperature.

Ans. Due to difference in conductivity, metals having high conductivity compared to wood. On touch with a finger, heat from the surrounding flows faster to the finger from metals and so one feels the heat. Similarly, when one touches a cold metal the heat from the finger flows away to the surroundings faster.

Q7. Two bodies of unequal mass are moving in the same direction with equal kinetic energy. The two bodies are brought to rest by applying retarding force of same magnitude. How would the distance moved by them before coming to rest? Compare?

Ans. Work done = change in KE

Both bodies had same KE and hence same amount of work is needed to be done. Since force applied is same, they would come to rest within the same distance.

Q8. Pressure cooker is used for cooking food at hill station. Explain in terms of vapour pressure why is it

Ans. A liquid boils when vapour pressure becomes equal to the atmospheric pressure. Water boils at low temperature on hills because atmospheric pressure is low. Therefore even at low temperature vapour pressure becomes equal to atmospheric pressure.

Q9. When 500 mL of water and 500 mL of ethanol are mixed the resulting volume is less than 1 L. How? Ans. The total mass of substances does not change during a chemical reaction. When one volume of liquid is mixed with another volume of liquid that is less dense than the first, the total volume of the two liquids will not be the sum of the two individual liquids. The molecules of one liquid can fill in the volume between the molecules of another.

Q10. Two burning candles of same thickness and different length are covered by a tumbler glass. Which one will extinguish first or both will extinguish at the same time? Explain.